```
ATGGCCGTCATGGCGCCCCGAACCCTCCTCCTGCTACTCTCGGGGGCCCTGGCCCTGACCCAGACCTGGGCGGGTGAGTGCGGGGTCGGGAGGGAAACCGCCTCTGCGGGGAGAAG

                                                                                           81*         92*   98*
CAAGGGGCCCTCCTGGCGGGGGCGCAGGACCGGGGGAGCCGCGCCGGGAGGAGGGTCGGGCAGGTCTCAGCCACTGCTCGCCCCCAGGCTCCCACTCCATGAGGTATTTCTTCAC

                     *123
ATCCGTGTCCCGGCCCGGCCGCGGGGAGCCCCGCTTCATCGCCGTGGGCTACGTGGACGACACGCAGTTCGTGCGGTTCGACAGCGACGCCGCGAGCCAGAAGATGGAGCCGCGGG

                    *238              *256      268* *270     282*       292*
CGCCGTGGATAGAGCAGGAGGGGCCGGAGTATTGGGACCAGGAGACACGGAATATGAAGGCCCACGTCACAGACTGACCGAGCGAACCTGGGGACCCTGCGCGGCTACTACAACCA

GAGCGAGGACGGTGAGTGACCCCGGCCCGGGGCGCAGGTCACGACCCCTCATCCCCCACGGACGGGCCAGGTCGCCCACAGTCTCCGGGTCCGAGATCCACCCCGAAGCCGCGGGA

CTCCGAGACCCTTGTCCCGGGAGAGGCCCAGGCGCCTTTACCCGGTTTCATTTTCAGTTTAGGCCAAAAATCCCCCCGGGTTGGTCGGGGCGGGGCGGGGCTCGGGGGACTGGGCT

                                          368*                          *396           414*
GACCGCGGGGTCGGGGCCAGGTTCTCACACCATCCAGATAATGTATGGCTGCGACGTGGGGCCGGACGGGCGCTTCCTCCGCGGGTACCGGCAGGACGCCTACGACGGCAAGGAT

              *453                                             *502                  527*         539*
TACATCGCCCTGAACGAGGACCTGCGCTCTTGGACCGCGGCGGACATGGCAGCTCAGATCACCAAGCGCAAGTGGGAGGCGGTCCATGCGGCGGAGCAGCGGAGAGTCTACCTGG

     *559      571*
AGGGCCGGTGCGTGGACGGGCTCCGCAGATACCTGGAGAACGGGAAGGAGACGCTGCAGCGCACGGGTACCAGGGGCCACGGGGCGCCTCCCTGATCGCCTATAGATCTCCCGGGC

TGGCCTCCCACAAGGAGGGGAGACAATTGGACCAACACTAGAATATCACCCTCCCTCTG
```

FIGURE 1

Title: Method for HLA typing
Inventors: GUT et al.
Atty. Dkt. No. 065691-0447

```
ATGGCCGTCATGGCGCCCCGAACCCTCCTCCTGCTACTCTCGGGGGCCCTGGCCCTGACCCAGACCTGGGCGGGTGAGTGCGGGGTCGGGAGGGAAACCGCCTCTGCGGGGAGAAG

                                                                                           81*        92*   98*
CAAGGGGCCCTCCTGGCGGGGGCGCAGGACCGGGGGAGCCGCGCCGGGAGGAGGGTCGGGCAGGTCTCAGCCACTGCTCGCCCCCAGGCTCCCACTCCATGAGGTATTTCTTCAC

                     *123
ATCCGTGTCCCGGCCCGGCCGCGGGGAGCCCCGCTTCATCGCCGTGGGCTACGTGGACGACACGCAGTTCGTGCGGTTCGACAGCGACGCCGCGAGCCAGAAGATGGAGCCGCGGG

                    *238              *256     268* *270     282*      292*
CGCCGTGGATAGAGCAGGAGGGGCCGGAGTATTGGGACCAGGAGACACGGAATATGAAGGCCCACTCACAGACTGACCGAGCGAACCTGGGGACCCTGCGCGGCTACTACAACCA

GAGCGAGGACGGTGAGTGACCCCGGCCCGGGGCGCAGGTCACGACCCCTCATCCCCCACGGACGGGCCAGGTCGCCCACAGTCTCCGGGTCCGAGATCCACCCCGAAGCCGCGGGA

CTCCGAGACCCTTGTCCCGGGAGAGGCCCAGGCGCCTTTACCCGGTTTCATTTTCAGTTTAGGCCAAAAATCCCCCCGGGTTGGTCGGGGCGGGGCGGGGCTCGGGGGACTGGGCT

                                         368*                           *396           414*
GACCGCGGGGTCGGGGCCAGGTTCTCACACCATCCAGATAATGTATGGCTGCGACGTGGGGCCGGACGGGCGCTTCCTCCGCGGGTACCGGCAGGACGCCTACGACGGCAAGGAT

              *453                                             *502                  527*        539*
TACATCGCCCTGAACGAGGACCTGCGCTCTTGGACCGCGGCGGACATGGCAGCTCAGATCACCAAGCGCAAGTGGGAGGCGGTCCATGCGGCGGAGCAGCGGAGAGTCTACCTGG

     *559     571*
AGGGCCGGTGCGTGGACGGGCTCCGCAGATACCTGGAGAACGGGAAGGAGACGCTGCAGCGCACGGGTACCAGGGGCCACGGGGCGCCTCCCTGATCGCCTATAGATCTCCCGGGC

TGGCCTCCCACAAGGAGGGGAGACAATTGGGACCAACACTAGAATATCACCCTCCCTCTG
```

FIGURE 2

Title: Method for HLA typing
Inventors: GUT et al.
Atty. Dkt. No. 065691-0447

```
CTAGAGAAGCCAATCAGCGTCGCCGCGGTCCCAGTTCTAAAGTCCCCACGCACCCACCCGGACTCAGAGTCTCCTCAGACGCCGAGATGCTGGTCATGGCGCCCCGAACCGTCCTC

CTGCTGCTCTCGGCGGCCCTGGCCCTGACCGAGACCTGGGCCGGTGAGTGCGGGTCGGAGGGAAATGGCCTCTGCCGGGAGGAGCGAGGGGACCGCAGGCGGGGGCGCAGGACCT

                                                                           97*
GAGGAGCCGCGCCGGGAGGAGGGTCGGGCGGGTCTCAGCCCCTCCTCACCCCCAGGCTCCCACTCCATGAGGTATTTCTACACCTCCGTGTCCCGGCCCGGCCGCGGGGAGCCCCG

                                                                   206*               *222
CTTCATCTCAGTGGGCTACGTGGACGACACCCAGTTCGTGAGGTTCGACAGCGACGCCGCGAGTCCGAGAGAGGAGCCGCGGGCGCCGTGGATAGAGCAGGAGGGGCCGGAGTAT

     259*          272*               292*      302*
TGGGACCGGAACACACAGATCTACAAGGCCCAGGCACAGACTGACCGAGAGAGCCTGCGGAACCTGCGCGGCTACTACAACCAGAGCGAGGCCGGTGAGTGACCCCGGCCCGGGG

CGCAGGTCACGACTCCCCATCCCCCACGTACGGCCCGGGTCGCCCCGAGTCTCCGGGTCCGAGATCCGCCTCCCTGAGGCCGCGGGACCCGCCCAGACCCTCGACCGGCGAGAGCC

CCAGGCGCGTTTACCCGGTTTCATTTTCAGTTGAGGCCAAAATCCCCGCGGGTTGGTCGGGGCGGGGCGGGGCTCGGGGGACTGGGCTGACCGCGGGGCCGGGGCCAGGGTCTCAC

      362**363   *369                                    412*  418**419            *435
ACCCTCCAGAGCCATGTACGGCTGCGACGTGGGGCCGGACGGGCGCCTCCTCCGCGGGCATGACCAGTACGCCTACGACGGCAAGGATTACATCGCCCTGAACGAGGACCTGCGCT

                                                         527*        539*                  *559        *571
CCTGGACCGCCGCGGACACGGCGGCTCAGATCACCCAGCGCAAGTGGGAGGCGGCCCGTGAGGCGGAGCAGCGGAGAGCCTACCTGGAGGGCGAGTGCGTGGAGTGGCTCCGCAG

*583
ATACCTGGAGAACGGGAAGGACAAGCTGGAGCGCGCTGGTACCAGGGGCAGTGGGAGCCTTCCCCATCTCCTATAGGTCGCCGGGGATGGCCTCCC
```

FIGURE 3

Title: Method for HLA typing
Inventors: GUT et al.
Atty. Dkt. No. 065691-0447

CTAGAGAAGCCAATCAGCGTCGCCGCGGTCCCAGTTCTAAAGTCCCCACGCACCCACCCGGACTCAGAGTCTCCTCAGACGCCGAG*ATGCTGGTCATGGCGCCCCGAACCGTCCTC*

*CTGCTGCTCTCGGCGGCCCTGGCCCTGACCGAGACCTGGGCCG*GTGAGTGCGGGTCGGGAGGGAAATGGCCTCTGCCGGGAGGAGCGAGGGGACCGCAGGCGGGGGCGCAGGACCT

GAGGAGCCGCGCCGGGAGGAGGGTCGGGCGGGTCTCAGCCCCTCCTCACCCCCAG*GCTCCCACTCCATGAGGTATTTCTACACCTCCGTGTCCCGGCCCGGCCGCGGGGAGCCCCG*

206*

CTTCATCTCAGTGGGCTACGTGGACGACACCCAGTTCGTGAGGTTCGACAGCGACGCCGCGAGTCCGAGAGAGGAGCCGCGGGCGCCGTGGATAGAGCAGGAGGGGCCGGAGTAT

272* 302*

*TGGGACCGGAACACACAGATCTACAAGGCCCAGGCACAGACTGACCGAGAGAGCCTGCGGAACCTGCGCGGCTACTACAACCAGAGCGAGGCCG*GTGAGTGACCCCGGCCCGGGG

CGCAGGTCACGACTCCCCATCCCCCACGTACGGCCCGGGTCGCCCCGAGTCTCCGGGTCCGAGATCCGCCTCCCTGAGGCCGCGGGACCCGCCCAGACCCTCGACCGGCGAGAGCC

CCAGGCGCGTTTACCCGGTTTCATTTTCAGTTGAGGCCAAAATCCCCGCGGGTTGGTCGGGGCGGGGCGGGGCTCGGGGGACTGGGCTGACCGCGGGGCCGGGGCCAG*GGTCTCAC*

362**363 *369 412* *419

ACCCTCCAGAGCATGTACGGCTGCGACGTGGGGCCGGACGGGCGCCTCCTCCGCGGGCATGACCAGTACGCCTACGACGGCAAGGATTACATCGCCCTGAACGAGGACCTGCGCT

539* *559

CCTGGACCGCCGCGGACACGGCGGCTCAGATCACCCAGCGCAAGTGGGAGGCGGCCCGTGAGGCGGAGCAGCGGAGAGCCTACCTGGAGGGCGAGTGCGTGGAGTGGCTCCGCAG

*ATACCTGGAGAACGGGAAGGACAAGCTGGAGCGCGCTG*GTACCAGGGGCAGTGGGGAGCCTTCCCCATCTCCTATAGGTCGCCGGGGATGGCCTCCC

FIGURE 4

Title: Method for HLA typing
Inventors: GUT et al.
Atty. Dkt. No. 065691-0447

*125 196**197

GAACACCCCCCAGCACGTTTCTTGTGGCAGCTTAAGTTTGAATGTCATTTCTTCAATGGGACGGAGCGGGTGCGGTTGCTGGAAAGATGCATCTATAACCAAGAGGAGTCCGTGC

227* *261 286* 299* *308

GCTTCGACAGCGACGTGGGGGAGTACCGGGCGGTGACGGAGCTGGGGCGGCCTGATGCCGAGTACTGGAACAGCCAGAAGGACCTCCTGGAGCAGAGGCGGGCCGCGGTGGACAC

341* *345

CTACTGCAGACACAACTACGGGGTTGGTGAGAGCTTCACAGTGCAGCGGCGAGGTGAGCGCGGCGCGGGGCGGGGCCTGAGTCCCTGTGAGCGGAGAA

FIGURE 5

Title: Method for HLA typing
Inventors: GUT et al.
Atty. Dkt. No. 065691-0447

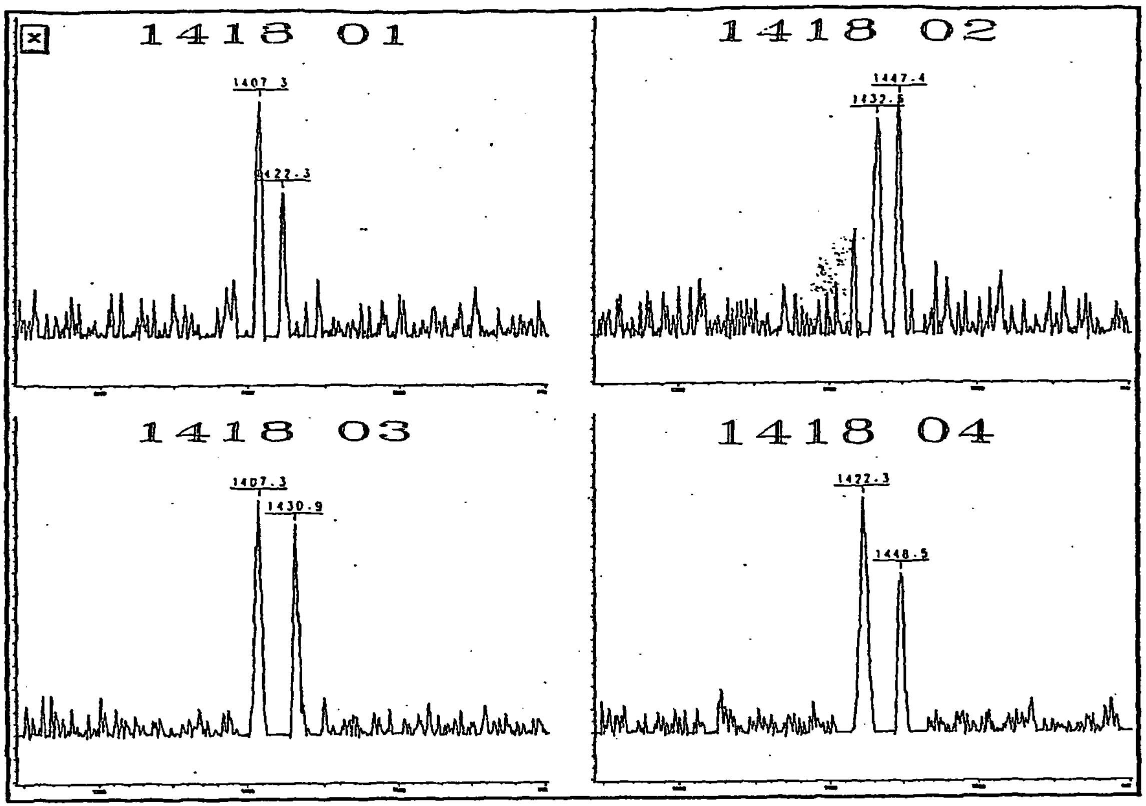

FIGURE 6

Title: Method for HLA typing
Inventors: GUT et al.
Atty. Dkt. No. 065691-0447